

KOLOS, Ya. G. Cand Tech Sci -- (diss) "Study of the heat characteristics  
of parabolic cylindrical solar installations <sup>under</sup> ~~at~~ varying temperatures and  
water pressures in boilers." Mos, 1957. 14 pp with graphs (Acad Sci USSR.  
Power Engineering Inst im G. M. Krzhizhanovskiy), 130 copies (KL, 11-58, 117)

*KOLOS, Ya. G.*

KOZLOV, B.K.; BOGDANOV, F.F.; KOLOS, Ya. G.; MARKOV, G.I.

Thermotechnical investigation of a parabolic solar collector for  
producing steam. Ispol'. soln. energ. no. 1:110-117 '57. (MIRA 10:11)  
(Solar energy)

Kolos, Ya. G.

AUTHOR: Kolos, Ya.G. (Engineer)

96-3-18/26

TITLE: An investigation of the thermal characteristics of cylindrical-parabolic solar installations with various temperatures and pressures of water in the boiler. (Issledovaniye teplovykh kharakteristik parabolotsilindricheskikh solnechnykh ustanovok pri razlichnykh temperaturakh i davleniyakh vody v kotle.)

PERIODICAL: Teploenergetika, 1958, No.3. pp. 73-78 (USSR)

ABSTRACT: Sun power installations are of special interest in the central Asian parts of the USSR. The simplest and most promising solar thermal devices are cylindrical-parabolic installations. When the installation is heating up slowly (and in the tests the mean rate of temperature rise of the heat transfer medium was 30°C per hour) it may be assumed with sufficient accuracy that conditions are stable over short intervals of time. An expression is then given for the mean efficiency of the installation in these time intervals. While the installation is heating up the energy absorbed by the boiler goes to increase the enthalpy of the heat transfer medium of the actual equipment and its insulation and to cover thermal losses. In the steady state energy is not used to increase the enthalpy of the structure and insulation and the efficiency is, therefore, higher. An analytical solution of the problem is given with a reference to a tube irradiated through special slots in the thermal

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96-3-18/26

An investigation of the thermal characteristics of cylindrical-parabolic solar installations with various temperatures and pressures of water in the boiler.

insulation by heat reflected from a cylindrical parabolic mirror as shown in Fig.1. Expressions are given for the energy and heat balance equations, and finally, expressions are derived that serve as the main formulae in the design of cylindrical-parabolic solar installations. The experimental part of the work is then described. The experimental installation, illustrated in Fig.1. consists of a reflector, receiver, and a set of measuring instruments. The reflector was a cylindrical-parabolic surface of mirror aluminium with a reflection factor of 0.72. The projected area of the mirror normal to the sun's rays was 0.83 sq.m. The receiver consisted of a drum in the form of a steel tube 76/83 mm diameter and 940 mm long with a total capacity of 4.4 litres. The tests were made with a mean integral radiation of about 700 kcal/m<sup>2</sup>hour. Five series of tests were made, the conditions of which are given in Table.1. Curves of change of pressure, enthalpy of heat transfer medium, wind speed, and efficiency as functions of time and of temperature difference between the heat transfer medium and the ambient for the first series of experiments are given in Figs.2 & 3. Figs. 4 & 5 give graphs of change of enthalpy and efficiency for the whole series of experiments. Fig.6. gives a graph of the relationship between the final conditions of the heat transfer medium and the

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98-3-18/26

An investigation of the thermal characteristics of cylindrical-parabolic solar installations with various temperatures and pressures of water in the boiler.

concentration of energy on the heating surface of the receiver. Fig.7. gives theoretical and experimental graphs of the increase of enthalpy with time and agreement is satisfactory. The graphs in Fig.4. show that the relationships of change of enthalpy and efficiency are the same for all tests and a formula is given for the efficiency. A number of practical matters are then considered. It is recommended to make the installation sloping although this does increase the heat losses somewhat. It is also recommended not to use a glass front because although it raises the efficiency somewhat, it would probably get dirty and broken. The importance of good thermal insulation is made clear. It is also important that the reflector should be accurately made. The use of a method based on the study of transient thermal conditions of the installation made it possible to obtain quickly a good deal of experimental data. It is concluded that it is quite practical to achieve a mean co-efficient of energy concentration on the heating surface of a cylindrical-parabolic installation of 25-30. With this concentration the heat transfer medium can be heated to a temperature of 380°C. There are 7 figures, 5 literature references (4 Russian, 1 English).

Card 3/3

ASSOCIATION: Power Institute of the Acad.Sci. USSR. (Energeticheskii  
AVAILABLE: Library of Congress. Institut AN SSSR).

KOLOS, Ya.G.

Data on comparative heat engineering tests of domestic and other small solar units. Geliotekhnika no.1:57-65 '65.

(MIRA 18:5)

1. Uzbekskiy nauchno-issledovatel'skiy institut energetiki i avtomatiki Glavnogo upravleniya po proyektirovaniyu elektrostantsiy, podstantsiy i setey Ministerstva stroitel'stva elektrostantsiy SSSR.

AKCHURIN, R.Kh.; APARISI, R.R.; KOLOS, Ya.G.; TEPLYAKOV, D.I.;  
SHATOV, N.I.; SHCHEGOLEV, D.M. [deceased]

Two-mirror solar stand of the Power Engineering Institute.  
Geliotekhnika no.5:5-10 '65. (MIRA 19:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy energeticheskiy  
institut imeni G.M. Krzhizhanovskogo. Submitted December 1,  
1965.

APARISI, R.R.; KOLOS, Ya.G.; TEPLYAKOV, D.I.

Calorimetric studies of high-temperature solar engineering units.  
Geliotekhnika no.6:25-31 '65. (MIRA 19:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy energeticheskiy  
institut imeni Krzhizhanovskogo.



L 30079-66 EWT(1)

ACC NR: AP6020630

SOURCE CODE: UR/0377/65/000/005/0005/0010

AUTHOR: Akchurin, R. Kh.; Aparisi, R. R.; Kolos, Ya. G.; Teplyakov, D. I.;  
Shatov, N. I.; Shchegolev, D. M. (Deceased) 30 B

ORG: State Scientific-Research Power Engineering Institute im. G. M. Krzhizhanovskiy  
(Gosudarstvennyy nauchno-issledovatel'skiy energeticheskiy institut)

TITLE: Two-mirror solar stand of the ENIN

SOURCE: Geliotekhnika, no. 5, 1965, 5-10

TOPIC TAGS: photoelectric detection equipment, actinometry

ABSTRACT: A combined two-mirror heliostat-containing solar stand was constructed in 1961-1962 at the testing area of the ENIN. The paper gives a detailed engineering description of the stand as a whole and of its various components (the mirrors, heliostat, reducing gears, photoelectric tracking sensors, vacuum system, and actinometric mechanism). The stand is presently in satisfactory operation. [The specific uses and results are not given.] Orig. art. has: 7 figures. [JPRS]

SUB CODE: 03, 09 / SUBM DATE: 13Jan65 / ORIG REF: 003

Card 1/1 20

L 36351-66 EWT(1)

ACC NR: AP6017582 (A)

SOURCE CODE: UR/0377/65/000/006/0025/0031

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920015-1

AUTHOR: Aparisi, R. R.; Kolos, Ya. G.; Teplyakov, D. I. 40 B

ORG: State Scientific Research Power Engineering Institute im. G. M. Krzhizhanovskiy  
(Gosudarstvennyy n.-i. energeticheskiy institut)

TITLE: Calorimetric investigation of high temperature solar installations

SOURCE: Geliotekhnika, no. 6, 1965, 25-31

TOPIC TAGS: solar furnace, calorimetry, solar power plant

ABSTRACT: The authors point out first that calorimetry under natural conditions is one of the best methods of experimentally investigating the radiant heat exchange in solar-power installations with mirror concentrators. The advantages of this method over others are outlined. This is followed by description of several types of calorimeters developed and used at ENIN, with emphasis on a water calorimeter designed for calorimetry of the focal image of a mirror with direct tracking of the sun (Fig. 1). Various modifications of these calorimeters and the differences in their efficiency and productivity are briefly discussed. The effect of the calorimeter diaphragm diameter on the measured radiant flux is estimated. Orig. art. has; 5 figures and 1 formula.

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ACCESSION NR: AP5020512

effect on matting. Matting increases with the average  
length of fibers and increases with the average length of the  
fibers. It is noted that the aerodynamic resistance of the  
sample of fur is superior to the resistance of the sample of  
hairs and 5 equations.

Naumasskiy politekhincheskiy institut (Naumasskiy Institute)

1950-1954

ENGL: 00

OTHER: 000

2

KOLOSENKO, I.

Emulate the "beacon." Sov.shakht. 10 no.9:11-12 S '61.  
(MIRA 14:8)

1. Predsedatel'shakhtkoma shakhtoupravleniya No.26-44 tresta  
Bokovantratsit.

(Socialist competition)

(Coal mines and mining)

ACC NR: AP6035884

SOURCE CODE: UR/0413/66/000/020/0124/0124

INVENTOR: Badayeva, A. A.; Pervaya, A. S.; Tutov, I. Ye.; Katsnel'son, V. Yu.;  
Kuz'mintsev, V. N.; Koloskov, M. M.; Kulinich, V. P.

ORG: none

TITLE: High speed steel. Class 40, No. 187314 [announced by the Central Scientific Research Institute of Technology and Machine Building (Tsentr'al'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya); All-Union Scientific Research Tool Institute (Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy institut)]

SOURCE: Izobreteniya, promyshlennyye obratzys, tovarnyye znaki, no. 20, 1966, 124

TOPIC TAGS: high speed steel, chromium tungsten molybdenum steel, vanadium containing steel, titanium containing steel, *DUCTILITY*, *TOUGHNESS*

ABSTRACT: This Author Certificate introduces a high-speed steel containing silicon, manganese, chromium, tungsten, molybdenum, vanadium and titanium. To improve the strength, ductility, notch toughness, and oxidation and heat resistance and to reduce carbide heterogeneity, the steel composition is set as follows: 0.75—0.85% carbon, 0.17—0.35% silicon, 0.20—0.40% manganese, 3.5—4.5% chromium, 2.5—3.0% tungsten, 2.5—3.0% molybdenum, 1.9—2.2% vanadium, 0.03—0.08% titanium.

SUB CODE: 11/ SUBM DATE: 05Jun65/  
Card 1/1

UDC: 669.14.018.252.3

KOLOSENKO, M.N.

USSR/Physics of the Earth - Seismology, 0-3

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36362

Author: Kolosenko, M. N.

Institution: None

Title: Determination of the Azimuth of the Epicenter of a Remote Earthquake Using the Instants at which the Seismic Waves Arrive at Two Stations

Original

Periodical: Tr. Geofiz. in-ta AN SSSR, 1955, No 30, 89-103

Abstract: An analysis of a method for determining the azimuth of the epicenter of a remote earthquake using the difference in the instants at which identical phases arrive at a pair of stations. The problem is solved for plane and spherical surfaces of the earth. The error in determining the azimuth is estimated and the conditions under which an accuracy of 1% is assured are given. Equations are recommended and a nomogram is given for calculating the azimuth. The method is advantageously used when the stations are all on the same side relative to the epicenter.

Card 1/1

KOLOSENKO, M. N.

USSR/Geophysics--Earthquakes

Card	1/1	Pub. 86--39/39
Authors	:	Kolosenko, M. N.
Title	:	The earthquake on the Ionian Islands
Periodical	:	Priroda 44/1, page 128, Jan 1955
Abstract	:	An account is given of the earthquake which occurred on the Ionian Islands in August of 1953. The figures for the duration and other characteristics are stated and the nature of earthquakes in general is explained. The conclusion is also drawn that there are no noticeable meteorological alterations.
Institution	:	..... Geophysics Inst, AS USSR
Submitted	:	.....



Kolosenko, M.N.

49-1-12/16

AUTHOR: Kolosenko, M.N.

TITLE: Taking into Consideration the Ellipticity of the Earth in Determining Epicentral Distances (Uchet elliptichnosti zemli pri opredelenii epitsentral'nykh rasstoyaniy)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 1, pp.116-120 (USSR)

ABSTRACT: The author investigates the errors involved by using the seismological tables of Jeffreys and Bullen (Ref.1) without taking into consideration the ellipticity of the Earth. In Table 1, pp.117-118, the values are given of the geocentric latitudes and geocentric directional cosines for the seismic stations of the Soviet Union, calculated for the coordinates of the respective stations, using the parameters of the Krasovskiy ellipsoid; the parameters of the Krasovskiy ellipsoid (1940) are compared with those of Hayford (1909) in Table 2. In some regions the deviation of the time of passage of the waves from the standard average hodograph is of a magnitude exceeding the correction for ellipticity and presents a source of information on the local structure of the Earth's crust. For studying these observations, natural earthquakes as well as of artificial explosions are used. It is concluded that in the case of seismological

Card 1/2

KOLOSHA, I. L.

Sugar Industry - By-Products

Effect of defecation residue on the yield of farm crops, Trudy UNDISOZ 6, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

KOLOSHA, I.L., kand.sel'skokhoz.nauk; PREDKO, I.G.[Predko, I.H.],  
starshly nauchnyy sotrudnik

Effectiveness of band application of mineral fertilizers and sugar  
mill slime to buckwheat in Chernozem regions. Nauch. trudy UASHN  
9:86-92 '59. (MIRA 14:3)

(Buckwheat—Fertilizers and manures)

KOLOSHA, I.L., kand.sel'skokhozyaystvennykh nauk, dotsent; PREDKO, I.G.,  
starshiy nauchnyy sotrudnik

Effect of cultivation practices on the yield and quality of sugar beets.  
Nauch. trudy UASHN 10:63-70 '60. (MIRA 14:3)  
(Sugar beets)

KOLOSHA, I.I., kand. sel'skokhoz. nauk; KUKSA, M.A., nauchnyy sotrudnik;  
GRIGOROVICH, M.O. [Hryhorovych, M.O.], nauchnyy sotrudnik

Effect of mineral fertilizers and soil liming on the yield of  
corn in dark-grey forest soils. Nauk. pratsi UASHN 17 no.12:  
34-39 '60. (MIRA 16:7)

(Corn (Maize)—Fertilizers and manures)  
(Liming of soils)

KOLOSHA, O. I.

KOLOSHA, O. I.: "The effect of fertilizers and line on the yield and quality of corn on sod-podzolic soils." Ukrainian Order of Labor Red Banner Agricultural Academy. Kiev, 1956  
(Dissertation for the Degree of Candidate in Agricultural Sciences)

So: Knizhna Letopis', No 17, 1956

USSR/Cultivated Plants. Cereals.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77622.

Author : Kolosha, O.I.

Inst :

Title : Cultivation of Corn on Turf-Podzolic Soils.

Orig Pub: Vestn. s.-kh. nauki, 1957, No 1, 21-28.

Abstract: At the experimental department of the Kiev Agricultural Institute and at the experimental base of the Ukrainian Scientific-Research Institute of Agriculture, the influence of different fertilizers on the content of raw protein (D), fat, of mineral elements in the grain and of carotene, ascorbic acid, raw protein and minerals in the leaves of corn was determined on turf-podzolic soil. The introduction into the soil of PK

Card : 1/3

BOYKO, Ye.; PALIOKHA, I., kand.sel'skokhozyaystvennykh nauk; KOLOSHA, O.,  
kand.sel'skokhozyaystvennykh nauk

Large-scale experiments on collective farms. Nauka i pered. op.  
v sel'khoz. 8 no.9:48-49 S '58. (MIRA 11:10)

1. Nosovskoye otdeleniye opytnogo khozyaystva Chernigovskoy  
gosudarstvennoy sel'skokhozyaystvennoy stantsii. 2. Zaveduyushchiy  
otdelom polevodstva Chernigovskoy gosudarstvennoy sel'skokhozyaystven-  
noy stantsii (for Boyko).

(Agriculture--Experimentation)



VLASYUK, P.A.; PROTSENKO, D.F.; KOLOSHA, O.I.

Physiological principles of harvesting grain in separate stages.  
Bot. zhur. 46 no.11:1638-1649 N '61. (MIRA 15:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii  
rasteniy, Kiyev.

(Grain--Harvesting)

KOLOSHA, O.I.

Effect of calcium carbonate on the growth of corn and the activity of its enzymes. Dokl. AN SSSR 147 no.1:237-239 N '62. (MIRA 15:11)

1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk Ministerstva sel'skogo khozyaystva UkrSSR. Predstavleno akademikom A.S. Kursanovym.

(Corn (Maize))  
(Liming of soils) (Catalase)

KOLOSHA, O.I.

Characteristics of carbohydrate and nitrogen metabolism in  
frost-resistant varieties of wheat and rye. Fiziol.rast. 12  
no.6:1064-1068 N-D '65. (MIRA 18:12)

1. Institut fiziologii rasteniy AN UkrSSR, Kiyev. Submitted  
September 21, 1964.

KOLOSHA, V.G., inzh.

The D-490 scraper canal cleaner. Stroi. i dor mash. 7 no.6:  
17-19 Je '62. (MIRA 15:7)

(Drainage)

KOLOSHENKO, V., letchik-ispytatel'

The Mi-4 at 8,000 meters. Grazhd. av. 22 no.1:26 Ja '65.  
(MIRA 18:11)

KOLOSHI

RUMANIA/Organic Chemistry - Synthetic Organic Chemistry.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 539<sup>4</sup>7  
 Author : Almashi, Sherban, Koloshi, Iliesh  
 Inst : Academy RFR  
 Title : Elemento-Organic Compounds. I. o,o-diethyl Esters of Arylsulfamidothiophosphoric Acids.  
 Orig Pub : Studii si cercetari chim. Acad. RFR Fil. Cluj. 1957, 8, No 1-2, 159-168.  
 Abstract : The reaction of (S)  $P(OC_2H_5)_2Cl$  with  $p-RC_6H_4SO_2NHNa$  in polar solvents (pyridine, acetone, dioxane) yielded (S) $P(OC_2H_5)_2NHSO_2C_6H_4R$  (I); (given: R, m. p. in °C,) Cl, 95; f, 72; Br, 112; I, 135; CN, 117; H, 56;  $OCH_3$ , 113;  $CH_3$ , 84.

Card 1/2

12

1. KOLOSHINA, L. M.
2. USSR (600)
7. "Peronosporic Fungi Which Parasitize the Vegetation of Turkmenistan", Izvestiya Turkm. Filiala Akad. Nauk SSSR (News of the Turkmen Affiliate, Acad Sci USSR), No 1, 1951, pp 39-44.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

KOLOSHINA, L.M.

Weeds as sources of infection of cultivated plants with root rot  
caused by the fungus *Rhizoctonia Aderholdii* (Buni) L.Koloschina.  
Uch.zap.Kish.uni. 13:219-226 '54. (MLRA 9:10)  
(Moldavia--Weeds) (Root rot) (Turkmenistan--Weeds)



KOLOSHINA, L.M.

KATAYEV, I.A.; KOLOSHINA, L.M.

*Rhizoctonia solani* Kuhn as a stimulator of the growth of English oak seedlings and the development of mycorrhiza on their roots.

Mikrobiologiya 24 no.6:700-704 N-D '55

(MIRA 9:4)

1. Kishinevskiy gosudarstvennyy universitet.  
(OAK) (RHIZOSPHERE MICROBIOLOGY)

*Koloshina, L.M.*

USSR/Plant Diseases. Diseases of Cultivated Plants.

N

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 57, 69548

Author : Koloshina, L.M., Nemchin, F.I.

Title : The Effect of Agrotechnical Measures and Methods of Storage on the Development of Potato Rhizoctoniosis in Moldavia.

Orig Pub : Uch. zap. Kishinevsk. un-ta, 1956, 23, 123-132.

Abstract : The study was conducted in Kishinev University on the effect of dates (1st and 12th of April) of planting potatoes, the depth of tuber plantings (12, 16, 20 and 24 cm), vernalization and combinations with bacterial fertilizers as to the development of rhizoctoniosis. The experiments were conducted with Octyabrenok, Yubel and Courier varieties. In addition a study was made on the influence of irrigation on destruction of 16 potato varieties. During the period of winter storage in a storeroom and in trenches for formation of scleroses Rhizoctonia solani Kubn was observed

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USSR/Plant Diseases. Diseases of Cultivated Plants.

N

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 57, 69548

Abstract : on potato bulbs of the Courier variety. The investigation proved that the disease is developed in spring sowings of potatoes independently of agrotechnical conditions. The interaction of the mold with the host plant had a specific character. The mold would settle on the underground part of the stalk and on the roots; however, the plants developed normally and the crop of tubers was not diminished. The prevalence of scleroses in the tubers was higher when potatoes were stored in trenches with a covering of soil, than by placing them in storerooms.

Card 2/2

*ALLSHANIKOV, GRIGORIY VASILYEVICH*

KOLOSHNIKOV, G. V.

USSR / Cultivated Plants. Experimental Methods. M-2

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72862.

Author : Kalashnikov, I. G.; Koloshnikov, G. V.; Mitrofanov, F. I.

Inst : Not given.

Title : On the Economical Effectiveness of Fertilizers in Experiments and in Production.

Orig Pub: Byul geogr. seti opytov s udobreniyami, 1957, No 1, 67-72.

Abstract: No abstract.

Card 1/1

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KOLOSHNIKOV, Grigoriy Vasil'yevich; MITROFANOV, Filipp Ivanovich;  
~~GHEBISOV, P.P., red.~~; ~~CHERNYKH, M.M., tekhn.red.~~

[Experience in introducing crop rotation on collective farms]  
Opyt vvedeniia sevooborotov v kolkhozakh. Moskva, Gos. izd-vo  
sel'khoz. lit-ry, 1958. 149 p. (MIRA 11:12)  
(Rotation of crops)

ACCESSION NR: AP4009918

S/0057/64/034/001/0034/0039

AUTHOR: Koloshnikov, V.G.

TITLE: Spectroscopic measurement of ion temperatures in the "Tokamak" machine

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.1, 1964, 34-39

TOPIC TAGS: plasma, plasma temperature, ion temperature, ion temperature measurement, interferometer, Fabry-Perot interferometer, line width measurement, Tokamak, Tokamak device, fusion apparatus

ABSTRACT: A Fabry-Perot interferometer is described with which the widths of faint spectral lines were measured in times of the order of 30 to 50 microseconds. The moving interferometer mirror was carried by a barium titanate cylinder on which silver electrodes had been deposited. A potential of three or four kilovolts on these electrodes would move the mirror by two or three microns. Difficulty was experienced in keeping the mirrors parallel during the motion, and a number of piezoelectric cylinders were tested before a satisfactory one was found. It was also necessary to mount a glass collar between the mirror and the cylinder to prevent distortion of the mirror when the field was applied. The necessary rough monochromatization fol-

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ACC.NR: AP4009918

lowing the interferometer was performed either by a modified prism spectrometer or by an interference light filter. The light that passed through the interferometer and monochromator fell on a photomultiplier tube, the output of which was recorded on an oscillograph. Widths of the deuterium  $D_3$  line, the C III line at  $4647 \text{ \AA}$ , and the He II line at  $4686 \text{ \AA}$  in the spectrum of the "Tokamak" machine were measured with the interferometer. The "Tokamak" was operated at a deuterium pressure of  $10^{-3} \text{ mm Hg}$  and a discharge current of 15 kA. Helium and carbon were present in small quantities as impurities. The apparatus width was determined by measuring the  $5461 \text{ \AA}$  line in a mercury lamp spectrum. The measured line widths were ascribed to Doppler broadening and ion temperatures were calculated from them. During the first half of the five millisecond discharge, the He II and C III temperatures both increased at the same constant rate of about 8 electron volts per millisecond. "The author is grateful to S.L.Mandel'shtam for formulating the problem and discussing the results, to N.A.Yavlinskiy (deceased) for continued interest in the work, and to G.G.Dolgov-Savel'yev for assistance in the work." Orig.art.has: 4 formulas and 5 figures.

ASSOCIATION: none

SUBMITTED: 24Apr63

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: PH

NR REF SOV: 006

OTHER: 005

Card 2/2

AUTHORS: Vaynshteyn, L. A., Koloshnikov, V. G., SOV/48-22-6-20/28  
 Mazing, M. A., Mandel'shtam, S. L.,  
 Sobel'man, I. I.

TITLE: On the Broadening and Displacement of Spectral Lines in a Highly Ionized Plasma (Ob ushirenii i sdvige spektral'nykh liniy v vysokoionizovannoy plazme)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1958, Vol. 22, Nr 6, pp. 718-719 (USSR)

ABSTRACT: The investigation of the breadth and shape of spectral lines does not characterize the excitation of atoms with sufficient accuracy, and therefore an investigation of the breadth and the displacement of the lines is more advantageous for determining the causes of these phenomena. The principal cause of the broadening and displacement of spectral lines in a highly ionized plasma is its interaction with charged particles. For lines with quadratic Stark effect the impact theory of broadening results in the following expressions for the breadth of lines and their displacement:

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$$\gamma = 11,4 C_4^{2/3} v^{1/3} N, \Delta = 9,8 C_4^{2/3} v^{1/3} N,$$
 where  $C_4$  denotes the constant of the quadratic Stark effect,

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Lines in a Highly Ionized Plasma

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$v$  - velocity,  $N$  - the density of the excited particles. Herefrom it follows that the ratio between the breadth and the displacement of  $C_{4.7}$  and  $N$  is independent and equal to:  $\gamma/\Delta = 1.46$ . In the case of interaction of a different kind, as e.g. according to the equation by Van der Vaal  $\gamma/\Delta = 2.8$ . The task to be carried out by the present paper was to find a correct explanation of the interaction between radiating atoms and charged particles, i. e. the applicability of the aforementioned  $\gamma$ - formula with respect to the lines with quadratic Stark effect. As objects the lines Ar II, which are excited in the channel of the spark discharge, were selected. Measurements of breadths and displacements of lines were carried out photographically. Results are given by a table. By checking these results it was found that those obtained by experiment contradicted theoretical results completely. This is explained by the fact that the initial expression for the displacement of the frequency of the atom oscillator  $\Delta\omega = C_4/R^4$ , where  $R$  denotes the distance to the exciting electron, is not applicable in this case because the electrons playing the principal part in

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Lines in a Highly Ionized Plasma

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the broadening of the lines form a Weisskopf radius that is too small. The field formed by the electrons turns out to be so strong on this occasion that the Stark effect ceases to be quadratic and goes over to linearity. There is no reason to believe that the field changes slowly and is quasistatic as is alleged by a well-known theory. The problem is still being discussed. There are 1 table and 3 references, 2 of which are Soviet.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR  
(Physics Institute imeni P. N. Lebedev, AS USSR)

1. Spectroscopy    2. Electron gas--Spectra    3. Perturbation  
theory

Card 3/3



KOLOSHNIKOV, V. G.

21(0), 24(0)	PHASE I BOOK EXPLANATION	SOV. 72
Akademiya nauk SSSR. Fizicheskii Institut		
Issledovaniya po eksperimental'noy i teoreticheskoy fizike; (sbornik) (Studies on Experimental and Theoretical Physics; Collection of Articles) Moscow, Akad. Nauk SSSR, 1959. 304 p. Errata slip inserted. 2,300 copies printed.		
Ed.: I. L. Fabelinskiy, Doctor of Physical and Mathematical Sciences; Eds. of Publishing House: A. L. Chervyak and V. G. Berkgaut; Tech. Ed.: Yu. V. Rylin; Commission for Publishing the Collection in Memory of Grigoriya Samuilovich Landsberg: I. Ye. Tamm (Chairman), Academician; M. A. Leontovich, Academician; P. A. Bazhulin, Doctor of Physical and Mathematical Sciences; S. L. Mandel'shtam, Doctor of Physical and Mathematical Sciences; I. L. Fabelinskiy, Doctor of Physical and Mathematical Sciences; P. S. Landsberg-Maryamov, Candidate of Physical and Mathematical Sciences; and P. Morozov (Secretary), Candidate of Physical and Mathematical Sciences.		
PURPOSE: This book is intended for physicist and researchers engaged in the study of electromagnetic radiations and their role in investigating the structure and composition of materials.		
COVERAGE: The collection contains 30 articles which review investigations in spectroscopy, optics, molecular optics, semiconductor physics, nuclear physics, and other branches of physics. The introductory chapter gives a biographical profile of G. S. Landsberg. Professor and head of the Department of Optics of the Division of Physical Technology of the Academy of Sciences, and reviews his work in high light scattering, gases, spectral analysis, and other fields. No personalities are mentioned. References accompany each article.		
Bazhulin, P. A., V. I. Mal'nev, and M. N. Subshchinskii. The work of G. S. Landsberg in the field of Molecular Spectroscopy 17	Abramson, L. S., and A. M. Mogilanskii. Investigation of Transformation Processes in an Activated Discharge Generator Operating Under Conditions of Low Arc Currents 27	
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KOLOSHNIKOV, V.G.; MAZING, M.A.; MANDEL'SHTAM, S.L.; MARASANOV, Yu.P.

Using a Fabry and Perot etalon for the study of line widths  
in pulse discharge spectra. Opt. i spektr. 11 no.4:556-558 0  
'61. (MIRA 14:10)  
(Electric discharges) (Scintillation spectrometry)

ACC NR: AP7002568 (A/N) SOURCE CODE: UR/0413/66/000/023/0059/0059

INVENTOR: Ragimov, F.Ya.; Lapshin, V.I.; Koloshnikov, V.G.

ORG: none

TITLE: Instrument for measuring plasma density. Class 21, No. 189100 [announced by Physics Institute im P.N. Lebedev (Fizicheskii institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 59

TOPIC TAGS: plasma density, plasma measurement, light interferometer

ABSTRACT: An Author Certificate has been issued for an instrument for measuring plasma density. The proposed instrument contains a monochromatic light source, a Fabry and Perot interferometer with one of its mirrors fixed, and a device for recording the light passing through the interferometer. To increase accuracy and to extend the range of the device, the plasma container overlaps half of the light flux of the interferometer, and the light-recording device has two photodetectors connected in a differentiating circuit for measuring the light flux which passes through the plasma, as well as the one unperturbed by the plasma. [JP]

SUB CODE: 20, 14/ SUBM DATE: 18Aug65/ ATD PRESS: 5114

Card 1/1

UDC: 533.9.082.5

KOLOSHVARI, G.; ABRIKOSOV, G.G.

Find of a representative of the class Lamptozoa in the fresh waters of Hungaria. Zool. zhur. 39 no.11:1735-1737 N '60. (MIRA 14:1)

1. Systematic-Zoological Institute of Szeged University (People's Republic of Hungary) and the Department of Invertebrate Zoology Moscow State University.

(Tisza River--Polyzoa)

KOLOSKINA, M.Ya., aspirant

Cultivation of lupine in Mordovia; preliminary report.  
Uch. zap. Mord. gos. un. no.13:225-232 '60. (MIRA 15:11)

1. Kafedra agronomii i pochvovedeniya Mordovskogo gosudarstvennogo universiteta.  
(Mordovia--Lupine)

KULOSKO, G.S.

Sharpener for enveloping hacks. Gidroliz. i lesokhim. prom.  
17 no.4222 '64 (MIRA 1787)

1. Polotskoye lesokhimicheskoye khozyaystvo.

KOLOSKO, S.I., inzhener.

Differentiation of output norms in tree tapping operations. Der.1  
lesokhim.prom. 3 no.5:25-27 My '54. (MLBA 7:6)

1. Trest Belleskhimprom. (Tree tapping)

KOLOSKO, S.I., inzhener.

Experience in tapping sparse pine and individual trees. Der. 1  
lesokhim.prom. 3 no.10:22-23 0 '54. (MLBA 7:11)

1. Trest Belleskhimprom.  
(Pine) (Tree tapping)



KOLOSKO, S.I., inzhener.

Cup raising and gathering oleoresin according to schedule. Gidroliz.  
i lesokhim. prom. 9 no.3:21-22 '56. (MIRA 9:8)

1. Treat Belleskhimprom.  
(Oleoresins) (Tree tapping)

*Kolosko, S.I.*

BARDYSHEV, I.I.; CHERCHES, Kh.A.; KAMYSHNYY, A.A.; KOLOSKO, S.I.;  
VOLKOVA, N.Ye.

Commercial production of colophony from spruce oleoresin.  
Gidroliz. i lesokhim. prom. 11 no.1:22-23 '58. (MIRA 11:2)

1. Institut khimii AN BSSR (for Bardyshev, Cherches) 2. Borisovskiy  
lesokhimicheskiy zavod (for Kamyshnyy) 3. Upravleniye lesnoy  
promyshlennosti Belorusskogo Sovnarkhoza (for Kolosko) 4. Dobrushskaya  
buzashnaya fabrika (for Volkova). . . .  
(Gums and resins)  
(Spruce)

KOLOSKO, S.I.

Experience in the use of streak marking and outlining. Gidroliz.  
i lesokhim.prom. 15 no.2:24-25 '62. (MIRA 18:3)

1. Belorusskiy sovet narodnogo khozyaystva.

KOLOSKO, S.I.

Effect of the frequency of collection in the turpentine of  
pine on the yield and quality of oleoresins. Gidroliz. i  
lesokhim. prom. 16 no.4:23-24 '63. (MIRA 16:7)

1. Belorusskiy soviet narodnogo khozyaystva.  
(Turpentine)

KOLOSKOV, A.

USSR/City Construction 5108.0500 Mar 1948  
Housing 5603.0300

"Construction of the City of Chirchik," A. Koloskov,  
Engr., 1 p

"Arkh 1 Stroi" Vol III, No 3

Gives brief description of Chirchik, one of most recent cities in USSR, started 12 years ago on site of hydroelectric power plant and electrochemical combine. Lists principal buildings of city: Chirchik Electrochemical Combine, Central Asia Chemical Machine-Building Plant and Agricultural Machine-Building Plant, several two-storied houses planned by Uzgosproyekt, designed by Engineer Ozerov and

LC

20090  
USSR/City Construction 5108.0500 (Contd) Mar 1948

Architect Rachinskaya and distinguished by excellent structure. Includes four photographs of Chirchik houses.

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KOLOS KOV, A.P.

KOLOS KOV, A.P. (Zaraysk)

Fifteen years later. Zdorov'e 4 no.1:12 Ja '58.  
(CHIST--FOREIGN BODIES)

(MIRA 11:2)



FLEROV, G.B.; KOLOSKOV, A.V.

Potassium metasomatites in the ultrabasic rocks of the central range of Kamchatka. Izv. AN SSSR. Ser.Geol. 30 no.4:35-41 Ap '65. (MIRA 18:4)

1. Institut vulkanologii Sibirskogo otdeleniya AN SSSR, Petropavlovsk-Kamchatskiy.

VOLYNETS, O.N.; KOLOSKOV, A.V.; FLEROV, G.B.; FRIKH-KHAR, D.I.; SHILIN, N.L.

Formational delineation of Tertiary plutonic and volcanic-plutonic  
formations in central Kamchatka. Dokl. AN SSSR 165 no.1:153-155  
N '65. (MIRA 18:10)

1. Institut vulkanologii Sibirskogo otdeleniya AN SSSR. Submitted  
March 10, 1965.

KOLOSKOV, G.I., inzh.-kapitan 3-go ranga

From "Polaris" to "Poseidon." Mor. sbor. 48 no.10:83-85 0 '65.  
(MIRA 18:9)  
,

KOLCSKOV, I., kand. istoricheskikh nauk

The militant vanguard of the workers of France. Komm. Vooruzh. Sil 5  
no.21:68-72 N '64. (MIRA 17:12)



KOLOSKOV, I.N.

KAPIAN, A.A., inzhener; KOLOSKOV, I.N., inzhener; PARINI, Ye.P., inzhener.

Planning the establishment of State standards for copper and aluminum terminals of cables and wires. Elek.sta. 25 no.8:46-47 Ag '54.  
(MLRA 7:9)

(Electric cables--Standards) (Electric wire--Standards)

KOLOSKOV, I. N.

AID P - 1534

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 30/36

Author : Kaganovich, M. Ya., Eng.

Title : Comments about the article of A. A. Kaplan, I. N. Koloskov, and Ye. P. Parini "On the tentative state standard for copper and aluminum terminals", and about the review of this article by Eng. A. L. Fayerman (Elek. sta., 1954, No.8)

Periodical : Elek. sta., 3, 59, Mr 1955

Abstract : The author comments in particular about the terminals of the TM-and IA types. The authors of the article and its reviewer bypassed the question of the existence of departamental standards for copper terminals, which standards often differ among themselves. The author points to the necessity of a uniform standardization.

Institution: None

Submitted : No date

KOLOSKOV, I. N.

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920015-1"

AID P - 2978

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 28/35

Author : Koloskov, I. N., Eng.

Title : ~~Grounding of the aluminum shielding of tubular TPRF type conductors~~  
Grounding of the aluminum shielding of tubular TPRF type conductors

Periodical : Energetik,<sup>3</sup> 5, 33-35, My 1955

Abstract : The author describes and illustrates the method of grounding such conductors. Two drawings.

Institution : None

Submitted : No date

KOLOS KOV, M.A.

Conference on the preparation of sulfur dioxide from pyrite and  
sulfur. Khim.nauka i prom. 1 no.2:239-240 '56. (MLRA 9:9)

(Sulfur dioxide)



KOLOSOKOV, N.I., kand. tekhn. nauk

Conditions for charging electric locomotive batteries. Izv. vys.  
ucheb. zav.; gor. zhur. no.8:103-113 '58. (MIRA 12:5)

1. Donetskii industrial'nyi institut.  
(Electric locomotives--Batteries)

KOLOS KOV, P.

High-quality sunflower seeds for the oil industry. Muk. elev. prom.  
24 no.11:8-9 N '58. (MIRA 11:12)

1. <sup>R</sup>ostovskoye oblastnoye upravleniye khleboproduktov.  
(Sunflower seed oil)

1ST AND 2ND COLUMNS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH COLUMNS	
<div style="position: absolute; top: 10px; left: 10px; font-size: 24px; font-weight: bold;">KOLDSKOV, P.I.</div> <div style="position: absolute; top: 40px; left: 10px; font-size: 24px; font-weight: bold;">AMS/A+B</div>				1961	
229 135		551.582(37)			
<p><b>Koldskov, Pavel Ivanovich.</b> <i>Klimaticheskoe opisanie Iuzhnogo Sakhalina.</i> [Climatic sketch of southern Sakhalin.] Leningrad, Gishmetizdat, 1936. 24 p. o bcs. 31 plates. DLE. Photostat available. DWB -An excellent analytical study of the various climatic elements (wind, storms, temperature, frost, effective temperature, absolute and relative humidity, rainfall, rainy days, excessive rains, evaporation from water surfaces, cloudiness, fog, thunderstorm, snow cover, and temperature) and of conditions in the various months or seasons, based on fairly complete data for six stations, all on the coasts of southern Sakhalin.</p> <p><i>Subject Headings:</i> Climatology, Sakhalin, U.S.S.R. J R</p>					
ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION					
SECOND SYMBOLS		SECOND MIX ONE ONE		THIRDS ONE	
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KOLOS KOV, P. I.

"On the Question of the Factors and Processes of Firnization," Iz. Ak. Nauk  
SSSR, Geograf. i Geofiz., No.5-6, 1945

Inst. Freezing, AS USSR

KOLOSOW, P. I.

"Soil Climatology," Pochvoved., No.3, 1946

KOLOS KOV, P. I.

"Problem of the Origin of Ground Ice," Iz Akad Nauk SSSR, Seriya Geograf i Geofiz No 6,  
1946 (553-556).  
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

KOLOS KOV, Pavel Ivanovich.

KOLOS KOV, Pavel Ivanovich. Agroklimatologiya kak novaia sovetskii nauchnaia distsiplina. (Akademiia Nauk SSSR. Izvestiia. Seriia geograficheskai i geofizicheskai. v. 10. Moskva, 1946. no. 2, p. 197-204)  
"Literatura": p. 204 (7 entries)

SO: LC, Soviet Geography, Part I, 1951, Uncl.

КОЛОСКОВ, П. И.      117 AND 120 CORDS      PROCESSES AND PROPERTIES MODS      140 AND 6TH EXPRES									
AMS/A4B									
1950 M									
9-147      531,582-63 [Kolokolov, Pavel Ivanovich. Agroklimaticheskie resheniya Kazakhstana. [Agroclimatic regionalization of Kazakhstan.] Moscow, Izdatel'stvo Akademii Nauk, SSSR, 1947. 267 p. 59 tables, 212 refs., 45 equations. DLC--The work is divided into three main sections: (1) The physical basis of agroclimatology; regionalization; (2) Bioclimatology and regionalization of crops; (3) Agroclimatic investigations into methods of agriculture. In the first section the various meteorological or physical factors (radiation, temperature, humidity, soil moisture etc.) and the geographical factors which enter into the above (altitude, latitude, relief, pressure, wind, rainfall etc.) are considered quantitatively. Empirical formulas are worked out for calculating integrated indices of these factors, so as to create a rational classification on which to base climatic charts. Microclimatic factors are stressed. Data for 120 stations are used in computing indices. The second section takes up each separate crop (wheat, oats, rice, corn, flax, tobacco, peas, beans, cotton etc.) and discusses in detail the influence of the various physical factors and the basis for regionalization. Work of dozens of authors has been applied to the particular problems of Kazakhstan. The third section deals with land usage and climatic amelioration, with many concrete examples of application of climatic regionalization in practice. Pt. II (not available at present) is an Atlas of Climatic and Agroclimatic Charts of Kazakhstan. A six-page bibliography lists 212 references on agricultural climatology, including 21 works by the author (1915-1940) on microclimate, frozen soil, forest influence, cartography and other phases of agricultural climatology, especially in the Far East of the U.S.S.R. Subject headings: <u>Agricultural climatology</u> , <u>Climatic classification</u> , <u>Kazakhstan</u> , <u>U.S.S.R.</u> --M.R.									
ASH-55A METALLURGICAL LITERATURE CLASSIFICATION									
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KOLOSKOV, P. I.

FA 14T67

USSR/Permafrost  
Soil science

Jan 1947

"Depth of Winter Soil Freezing in European USSR and Kazakhstan," P. I. Koloskov, 8 pp

"Merzlotovedeniye" Vol II, No 1

Deals with depth of winter soil freezing under natural conditions and where snow has been swept away. Mathematical formulae for determining depth of freezing under both conditions and schematic map.

14T67

My vegetation soil and concludes that the limit of soil from pure sand to heavy clay  
the climate and type of soil

KOLOS KOV, P.I.

Kolosov, P.I.

"Agricultural division of Kazakhstan on the basis of climate." Reviewed by F.F. Davitaya.  
Met. i gidrol. no.6, 1948.

Monthly List of Russian Accessions, Library of Congress, November, 1952. UNCLASSIFIED.

Koloskov, P. I.

Meteorological Abst.

Vol. 4 No. 2

Feb. 1953

Climatology and  
Bioclimatology

4.2-257

551.388.21331.577.3

(3)

Buchinskii, I. E., K voprosu vlianiia vysoty mestnosti na temperaturu i osadki. [The influence of the altitude of a region on temperature and precipitation/] Meteorologiya i Gidrologiya, No. 1:21-25, Sept. 1950. 5 tables, 8 refs. DLG--A study on lapse rates of temperature and precipitation in the Ukraine. For this purpose long period observations of 17 pairs of stations with heights up to 1000 m were used. The average lapse rates of temperature were established as  $+1.5^{\circ}\text{C}$ , but variations of this rate in individual years are large (0.938-0.971). More satisfactory results were obtained by a comparison of rates for the stations located on similar form of relief. The lapse rate of temperature is subject to annual variations, and in summer is higher (up to 1.0), but lower in winter. For reduction of the annual amount of precipitation to sea level a formula presented by P. I. Koloskov for similar investigations in the Caucasus and Far East was applied. The formula is:  $H_0 = \frac{H_n}{1 + \frac{H_n}{H_0} \cdot C}$  (1/0) precipitation at sea level,  $H_n$ —precipitation at heightn of  $H_n$ ,  $C$ —empirical coefficient determined by observations. The increase of precipitation with height in the Ukraine was 25-27% for every 100 m. Subject Headings: 1. Vertical

(over)

KANAYEV, A.F.; CHEKOTILLO, A.M.; KOLOSKOV, P.I., doktor geogr. nauk, prof.,  
otv. red.; KUDASHEV, A.I., red. izd-va; SIMKINA, Ye.N., tekhn. red.

[Cold storage installations made of ice and their use] Lediane sklady  
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KOLOS KOV, P.I.

Problems concerning the division of the U.S.S.R. into agroclimatic  
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KOLOS KOV, P.I.

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Principal work methods in dividing the territory of the  
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KOLOSKOV, P.I.

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Trudy NIIAK no.7:85-92 . '59. (MIRA 13:4)

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KOLOS KOV, P.I.

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(MIRA 14:8)

(Fallowing)

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KOLOSNOV, P.I.

Brief climatic characteristics of the growing period of medium-  
precocious farm crops in the U.S.S.R. Trudy NIIAK no.10:19-35  
'61. (MIRA 14:8)

(Crops and climate)

S/169/62/000/012/072/095  
D228/D307

AUTHOR: Koloskov, P.I.

TITLE: Climatic amelioration measures necessary for raising the productivity of agriculture in the USSR (as a matter for discussion)

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1962, 70, abstract 12B459 (Tr. N.-i. in-ta aeroklimatol., no. 15, 1962, 66-78)

TEXT: Two kinds of measures for the improvement of climate are proposed. One is by rationalizing the water-heat regime on the basis of available resources (for the West Siberian chernozem zone and the Far East). The other is by introducing into the local water-heat balance further amounts of heat and moisture without detriment to other areas (warming the USSR's north-eastern regions and moistening arid areas). For the case of dry summers in the chernozem zone of the Union's European territory it is recommended that safety reserves of ground-water should be set up, by building on small rivers

Card 1/3

Climatic amelioration ...

S/169/62/000/012/072/095  
D228/D307

the maximum possible number of dams and small hydroelectric power stations, working at the highest drop and discharge of water (similarly to the old country watermills). This measure will increase the river arteries, raise the ground-water level, replenish the ground-water reserves, and restrict the water erosion of soil and ground. All forms of mastering expanses of taiga (forest clearing, burning the organic cover, plowing virgin soil) raise the soil temperature during the growing season and also in winter if the snow cover is more than 20 cm thick, and prevent the soil from becoming too damp. This is a sufficient agroclimatic basis for establishing grain farming in the part of the West Siberian Plain that is in the podsol zone of adequate humidification (with a moisture index of 16 - 32) and has total positive temperatures of 1500 - 2000° and a snow cover more than 50 cm thick at the end of winter. In the southerly arid and dry districts of the Union's European territory, gravitating towards the Black Sea, the Sea of Azov, and the Caspian Sea, the ground must be irrigated at the expense of the rivers flowing into these seas. This will ensure good harvests of agricultural crops and will also introduce much water into the local

Card 2/3

KOLOS KOV, P.I.

Practice of climatic zoning of the earth for purposes of  
agriculture of the U.S.S.R. (with map). Trudy NIIAK no.15:  
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(Meteorology, Agricultural—Charts, diagrams, etc.)

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no.15:14-23 '62. (MIRA 15:9)  
(Soviet Far East--Crops and climate)

KOLOS KOV, P.I.

Measures for improving the climatic conditions which are  
essential in order to increase the agricultural production  
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(Loading and unloading)

- [illegible]

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(Coal miners)